

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listing of claims in the application.

Claims 1-20 (Canceled)

21. (Previously amended) A functional food or functional feed composition comprising a resistant starch obtained from a water-insoluble linear α -1,4-D-glucan, said polyglucane being produced by the action of amylosucrase acting on sucrose, wherein the degree of branching in the 2, 3, or 6 position is 0%, the degree of crystallinity of the resistant starch is greater than 65%, wherein the resistant starch contains no phosphorous, and wherein the resistant starch further comprises at least one further food additive or feed additive.

22. (Previously presented) The composition as claimed in claim 21, wherein the food additive or feed additive is selected from the group consisting of probiotics, prebiotics, vitamins, provitamins, antioxidants, oils, fats, fatty acids, and mixtures thereof.

23. (Previously presented) The composition as claimed in claim 22, wherein the probiotic is a bifido bacterium.

24. (Previously amended) The composition as claimed in claim 21, wherein the resistant starch acts as a carrier material for the food additive or feed additive.

25. (Previously amended) The composition as claimed in claim 21, wherein the resistant starch is present in the form of microparticles with a mean diameter of 1 nm to 100 μ m.

26. (Previously amended) The composition as claimed in claim 21, wherein the food additive or feed additive is at least in part enrobed by the resistant starch.

27. (Previously amended) The composition as claimed in claim 21, wherein the water-insoluble linear α -1,4-D-glucan has a molecular weight of from 0.75×10^2 to 10^7 g/mol.

28. (Previously amended) The composition as claimed in claim 21, wherein the water-insoluble linear α -1,4-D-glucan has a molecular weight of from 10^3 to 10^6 g/mol.

29. (Previously amended) The composition as claimed in claim 21, wherein the water-insoluble linear α -1,4-D-glucan has a molecular weight of from 10^3 to 10^5 g/mol.

30. (Previously presented) The composition as claimed in claim 21, wherein the water insoluble linear α -1,4-D-glucan is obtained by in vitro polymerization of glucose in the presence of an enzyme having amylosucrase activity.

31. (Previously presented) The composition as claimed in claim 21, wherein the composition is a foodstuff, a foodstuff precursor or a foodstuff supplement.

32. (Previously Amended) A medicament comprising a resistant starch based on water-insoluble linear α -1,4-D-glucans, said polyglucane being produced by the action of amylosucrase acting on sucrose, wherein the degree of branching in the 2, 3 or 6 position is 0%, the degree of crystallinity of the resistant starch is greater than 65%, and wherein the resistant starch contains no phosphorous.

33. (Previously presented) The medicament as claimed in claim 32, wherein the medicament is a gastrointestinal composition.

34. (Previously Amended) A pharmaceutical or veterinary composition comprising a resistant starch based on water-insoluble linear α -1,4-D-glucans, said polyglucane being produced by the action of amylosucrase acting on sucrose, wherein the degree of branching in the 2, 3 or 6 position is 0%, the degree of crystallinity of the resistant starch is greater than 65%, and wherein the resistant starch contains no phosphorous.

35. (Previously presented) The composition as claimed in claim 34, further comprising a functional additive.
36. (Previously presented) The composition as claimed in claim 35, wherein the functional additive is a food additive or feed additive.
37. (Previously presented) The composition as claimed in claim 36, wherein the food additive or feed additive is a probiotic.
38. (Previously presented) The composition as claimed in claim 37, wherein the probiotic is a bifido bacterium.
39. (Previously presented) The composition as claimed in claim 35, wherein the functional additive is a medicinal compound.
40. (Previously presented) The composition as claimed in claim 39, wherein the medicinal compound is a therapeutic agent.
41. (Previously amended) A method of treating or preventing gastrointestinal disorders comprising administering an effective amount of a medicament comprising a resistant starch based on water-insoluble linear α -1,4-D-glucans, said polyglucane being produced by the action of amylosucrase acting on sucrose, wherein the degree of branching in the 2, 3 or 6 position is 0%, the degree of crystallinity of the resistant starch is greater than 65%, and wherein the resistant starch contains no phosphorous.